**Engine**

- Volvo TAD571 VE, Tier 4f, 4 cycle, inline 4 cylinder, liquid cooled, electronic controlled
- Vertical canister style lube and main fuel filters and fuel/water separation with manual feed pump attached to engine
- Water in fuel indicator and alarm

**Gross Rating:** 173hp @ 2200 rpm (129kW)
**590 ft lb torque @ 1100-1500 rpm (800Nm)

**Net Rating:** 153 hp @ 2200 RPM (114kW)

**Engine Controls and Instrumentation**

- Key operated ignition/starter switch, throttle and main battery disconnect switch
- Air cleaner condition indicator
- Electronic monitor indicates fuel level, low battery charge, lube oil pressure, high coolant temperature, engine rpm and engine hours
- Fuel saving auto idle feature sends engine rpm to idle when control circuits are in neutral for seven seconds

**Boom**

- Three piece square telescoping boom
- Adjustable boom rollers with eccentric shafts
- Adjustable height and leveling
- No hydraulic circuits in boom

**Hydraulic System**

**Pumps**

- One load-sensing, axial piston pump; oil flow 0-110 gpm (0-416 L/min)
- Gear pump, 6 gpm (23 L/min)

**System Monitor**

- Electronic Monitor in Cab
  - Low hydraulic fluid level
  - High hydraulic fluid temperature
  - System working pressure
  - System pilot pressure

**SYSTEM SPECIFICATIONS**

- Two hoist: 5.0” ID, 3.0” rod (127 mm x 76 mm), 10.72” (272.3 mm) stroke
- Two leveling: 5.0” ID, 3.0” rod (127 mm x 76 mm), 25.9” (658.1 mm) stroke

**Four Hydraulic Motors**

- Swing, 64 hp (48 kW)
- Two propel motors, 120 hp (89 kW) each
- Hydraulic winch, 122 hp (91 kW)

**Operating Pressures:**

- Hoist: 4,900 psi (331 BAR)
- Swing: 4,200 psi (290 BAR)
- Telescope: 4,900 psi (331 BAR)
- Propel: 4,900 psi (331 BAR)
- Pilot System: 550 psi (38 BAR)

**Oil Capacity**

- Reservoir system 65 gallons (246 L)
- Pressurized reservoir with visual oil level gauges

**Filtration System**

- 10 micron return filter
- 10 micron pilot filter
- Fin and tube-type oil cooler with thermal by-pass and relief valves
- Pressure-compensated, load-sensing valves with circuit reliefs in all circuits

**Crawler Drive**

- Dual range, high torque piston motor powers each track
- Three-stage planetary drive with integral speed limiting valve and automatic spring-set/hydraulic release wet-disc parking brake

**Travel Speed:** on flat, level surface:
- High Speed: 3.4 mph (5.5 km/h)
- Low Speed: 1.9 mph (3.1 km/h)

- Automatic two-speed control shifts crawler drive into low speed under difficult travel conditions
- Manual override switch for loading the machine for transport

**Individual Track Control**

- Tracks counter-rotate to pivot machine about the swing centerline
- Electronically operated travel alarm signals crawler movement in either direction

**Swing**

- Priority swing circuit with axial piston motor
- Planetary transmission

**Swing Brake**

- Automatic spring-set/hydraulic release wet-disc parking brake
- Dynamic braking provided by the hydraulic system
**Function Forces**

**Rated Boom Force:**
11,000 lbs (48.9 kN)

**Weight**

Approximate working weight with fuel tank half full and no operator.

<table>
<thead>
<tr>
<th>Pad Size</th>
<th>Weight</th>
<th>Bearing Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>31.5”</td>
<td>67500 lb</td>
<td>8.0 psi</td>
</tr>
<tr>
<td>800 mm</td>
<td>(30,617 kg)</td>
<td>(55.9 kPa)</td>
</tr>
</tbody>
</table>

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